

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/08690

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C12N15/00, C07K14/47, C07K16/18, C12Q1/68, A61K38/17,
39/395, 45/00, 48/00, A61P48/00, 3/04, 3/10, 9/10, 43/00,
G01N33/50, 33/15

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C12N15/00, C07K14/47, C07K16/18, C12Q1/68, A61K38/17,
39/395, 45/00, 48/00, A61P48/00, 3/04, 3/10, 9/10, 43/00,
G01N33/50, 33/15

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

BIOSIS/WPI (DIALOG), JSTPlus (JOIS), Genbank/Geneseq, Swissprot/Geneseq

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Y | Kazuhisa MAEDA et al., Analysis of an expression profile of genes in the human adipose tissue, Gene, Vol.190 (1997), pages 227 to 235 | 1-65 |
| Y | Erding Hu et al., AdipoQ is a novel adipose-specific gene dysregulated in obesity, Journal of Biological Chemistry, Vol.271, No.18, (1996), pages 10697 to 10703 | 1-65 |
| Y | Sylvain Baulande et al., Adiponutrin, a transmembrane protein corresponding to a novel dietary- and obesity-linked mRNA specifically expressed in the adipose lineage, Journal of Biological Chemistry, Vol.276, No.36, (2001), pages 33336 to 33344 | 1-65 |

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:
 "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier document but published on or after the international filing date
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search
19 September, 2003 (19.09.03)

Date of mailing of the international search report
07 October, 2003 (07.10.03)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| Y | Kee-Hong Kim et al., A cysteine-rich adipose tissue-specific secretory factor inhibits adipocyte differentiation, Journal of Biological Chemistry, Vol.276, No.14, (2001), pages 11252 to 11256 | 1-65 |
| P,X | US 2003/032155 A1 (Genentech Inc.), 13 February, 2003 (13.02.03), (Family: none) | 1-8, 45-65 |
| X | WO 00/53758 A2 (Genentech Inc.), 14 September, 2000 (14.09.00), & AU 200035144 A & US 2002/0010137 A1 & KR 2001103046 A & US 2002/0058309 A1 & EP 1220905 A2 & US 2002/0110859 A1 & US 2002/0115145 A1 & US 2002/0197612 A1 & US 2002/0197674 A1 & US 2002/0198147 A1 & US 2002/0198149 A1 & US 2002/0198366 A1 & KR 2003002292 A | 1-8, 45-65 |
| X | WO 01/57188 A (Hyseq Inc.), 05 February, 2001 (05.02.01), & AU 200131288 A & AU 200133293 A & AU 200134847 A & AU 200134848 A & AU 200134944 A & AU 200136658 A & AU 200136660 A & AU 200136663 A & AU 200136721 A & AU 200143142 A & AU 200132971 A | 9-16, 45-65 |
| X | ADACHI, J. et al., RIKEN functional annotation of a full-length mouse cDNA collection, Genbank, 10 July, 2000 (10.07.00), Accession AK007787 & 16 April, 2002 (16.04.02), Accession AK077118 | 9-16, 45-65 |
| X | Strausberg, R.L. et al., Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences, Genbank, 04 September, 2001 (04.09.01), Accession BC013497 & 01 February, 2002 (01.02.02), Accession BC022616 & 01 March, 2002 (01.03.02), Accession BC024888 | 9-16, 45-65 |
| X | WO 01/00638 A2 (Millennium Pharm Inc.), 04 January, 2001 (04.01.01), & AU 200056197 A & EP 1194534 A2 | 17-20, 45-65 |
| X | ADACHI, J. et al., RIKEN functional annotation of a full-length mouse cDNA collection, Genbank, 10 July, 2000 (10.07.00), Accession AK017880 | 17-20, 45-65 |
| X | Strausberg, R.L. et al., Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences, Genbank, 29 October, 2001 (29.10.01), Accession BC016252 | 21-28, 45-65 |

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X | WO 01/53312 A1 (Hyseq Inc.), 26 July, 2001 (26.07.01), & AU 200127284 A & EP 1242443 A1 & US 2002/0197679 A1 | 29-32, 45-65 |
| X | ADACHI, J. et al., RIKEN functional annotation of a full-length mouse cDNA collection, Genbank, 16 July, 2001 (16.07.01), Accession AK030584, AK035957 & 16 April, 2002 (16.04.02), Accession AK082495, AK082963, AK080754 | 29-32, 45-65 |
| X | WO 01/64835 A2 (Hyseq Inc.), 07 September, 2001 (07.09.01), & AU 200138347 A | 33-36, 45-65 |
| X | ADACHI, J. et al., RIKEN functional annotation of a full-length mouse cDNA collection, Genbank, 10 July, 2000 (10.07.00), Accession AK009771, AK012437 | 33-36, 45-65 |
| X | WO 01/90357 A1 (Genesis Res. & Dev.Corp.Ltd.), 29 November, 2001 (29.11.01), & AU 200160847 A & US 2003/0040471 A1 | 37-40, 45-65 |
| X | WO 01/48192 A (Genesis Res. & Dev.Corp.Ltd.), 05 July, 2001 (05.07.01), & AU 200124134 A & US 6380362 B1 | 37-40, 45-65 |
| X | WO 01/51636 A2 (Incyte Genomics Inc.), 19 July, 2001 (19.07.01), & AU 200129366 A & EP 1246918 A2 | 41-65 |
| X | Strausberg, R.L. et al., Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences, Genbank, 01 May, 2002 (01.05.02), Accession BC028869 | 41-65 |
| X | ADACHI, J. et al., RIKEN functional annotation of a full-length mouse cDNA collection, Genbank, 16 July, 2001 (16.07.01), Accession AK043006 & 16 April, 2002 (16.04.02), Accession AK084668 | 41-65 |